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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/905,424	07/13/2001	Yoshinori Tomita	09792909-5074	3386	
75	90 07/16/2003				
SONNENSCHEIN NATH & ROSENTHAL Sears Tower 233 S. Wacker Drive, 80th Floor			EXAMINER		
			QUILLEN, ALLEN E		
Chicago, IL 60	J606	•	ART UNIT	PAPER NUMBER	
			2676	5	
			DATE MAILED: 07/16/2003	DATE MAILED: 07/16/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

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		Application No.	Applicant(s)
		09/905,424	TOMITA, YOSHINORI
•	Office Action Summary	Examiner	Art Unit
		Allen E. Quillen	2676
5 : 16	The MAILING DATE of this communication ap	1	
Period fo	• •		
THE - Exte after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statutively received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a lift within the statutory minimum of thin will apply and will expire SIX (6) MON a. cause the application to become A	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. & 133)
1)	Responsive to communication(s) filed on		
2a)[This action is FINAL . 2b)⊠ TI	nis action is non-final.	
3)☐ Disposit	Since this application is in condition for allow closed in accordance with the practice under ion of Claims	ance except for formal ma Ex parte Quayle, 1935 C.	tters, prosecution as to the merits is D. 11, 453 O.G. 213.
4)🛛	Claim(s) 1-5 is/are pending in the application.		
	4a) Of the above claim(s) is/are withdra	wn from consideration.	
5)	Claim(s) is/are allowed.		
6)⊠	Claim(s) <u>1-5</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
8)□	Claim(s) are subject to restriction and/o	r election requirement.	
	on Papers		
9) 🗌 🤈	The specification is objected to by the Examine	er.	
10)🛛 🖰	The drawing(s) filed on <u>13 July 2001</u> is/are: a)[☐ accepted or b)⊠ objected	to by the Examiner.
	Applicant may not request that any objection to th	e drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).
11) 🗌 .	The proposed drawing correction filed on	_ is: a)□ approved b)□ d	isapproved by the Examiner.
	If approved, corrected drawings are required in re	ply to this Office action.	
12) 🗌 .	The oath or declaration is objected to by the Ex	aminer.	
Priority u	ınder 35 U.S.C. §§ 119 and 120		
13)🛛	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)[☑ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority document	s have been received.	
	2. Certified copies of the priority document	s have been received in A	pplication No
* S	3. Copies of the certified copies of the prio application from the International Bu ee the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	_
14) 🗌 A	cknowledgment is made of a claim for domesti	c priority under 35 U.S.C.	§ 119(e) (to a provisional application).
a)	☐ The translation of the foreign language procedure.cknowledgment is made of a claim for domest	visional application has be	een received.
Attachment	(s)		
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)
S. Patent and Tra TO-326 (Rev		tion Summary	Part of Paper No. 3



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DETAILED ACTION

Drawings

The drawings are objected to because in Figure 5, the term "STRAGE" is not defined in the Specification. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 2, 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Cherabuddi, et al, U.S. Patent 6,535,966.
- Regarding claim 1, representative of claims 2 and 4, Cherabuddi discloses a data storage device comprising: a plurality of storing means for storing data (column 4, lines 30-35); writing means for writing data to any of said storing means (Column 6, lines 65-67); reading means for reading data from any of said storing means (Column 5, lines 31-40); addressing means which, when data are to be either written by said writing means or read by said reading means, addresses

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said storing means in desired increments (Column 3, line 40; Column 4, lines 57-64; Column 5, lines 5-17) by use of a unique address (lines 8-15) (content addressable memory).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cherabuddi, et al, U.S. Patent 6,535,966 in view of Yamamura, U.S. Patent 5,319,786.
- Regarding claim 3, representative of claim 5, Cherabuddi discloses a data storage device according to claim 2. Cherabuddi does not disclose wherein said data are image data, and wherein said organizing methods include a method for organizing one-byte data in increments of pixels, and a method for organizing one-byte data by dividing the pixel-by-pixel one-byte data into desired increments of bits. Yamamura discloses wherein said data are image data (Column

3, lines 27-28), and wherein said organizing methods include a method for organizing one-byte data (Column 2, lines 33-39) in increments of pixels (Column 3, lines 44-57; Column 12, line 35, display dots, line 67, picture element), and a method for organizing one-byte data by dividing the pixel-by-pixel one-byte data into desired increments of bits (Column 17, lines 18-26). The motivation for combining data storage, read/write-addressing increments by use of a unique address (page burst mode; content addressable memory) with one-byte data in increments of pixels is for lower cost video processing (fewer registers, Column 1, lines 60-64) and processing amount and time (speed, Column 2, line 35; trigger a DMA transfer, Column 17, lines 8-27). Yamamura is evidence that at the time of the invention, it would have been obvious to one skilled in the art of computer image processing to combine the benefits of page burst mode and content addressable memory, as Cherabuddi discloses, with one-byte data pixel data-words for video applications, as Yamamura teaches, to achieve more cost effective image processing advantages.

MATTHEW C. BELLA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen E. Quillen whose telephone number is (703) 605-4584.

The examiner can normally be reached on Tuesday – Friday, 8:30am – noon and 1:00 - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew C. Bella, can be reached on (703) 308-6829.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or FAX'd to:

(703) 872-9314 (for Technology Center 2600 only)

Hand delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Sixth Floor (Receptionist), Arlington, Virginia.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number (703) 305-9600 or (703) 305-3800.

Allen E. Quillen Patent Examiner Art Unit 2676

July 1, 2003

MATTHEW C. BELLA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

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